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L2	L1 and (detect$ near system near (error or function$ or anormality))	10	L2
L1	(monitor$ near system near component$)	933	L1

END OF SEARCH HISTORY

L2: Entry 5 of 10 File: USPT Jul 24, 2001

DOCUMENT-IDENTIFIER: US 6266721 B1
TITLE: System architecture for remote access and control of environmental management

Detailed Description Text (123):
A means is provided by which individual components of a system are monitored and controlled through a set of independent, programmable microcontrollers interconnected through a network. Further means are provided to allow access to the microcontrollers and the interconnecting network by software running on the host processor.

Detailed Description Paragraph Table (4):
Application Title Ser. No. "Method of Remote Access and Control of 08/942,215 Environmental Management" "System for Independent Powering of 08/942,410 Diagnostic Processes on a Computer System" "Method of Independent Powering of 08/942,320 Diagnostic Processes on a Computer System" "Diagnostic and Managing Distributed 08/942,402 Processor System" "Method for Managing a Distributed 08/942,448 Processor System" "System for Mapping Environmental 08/942,222 Resources to Memory for Program Access" "Method for Mapping Environmental 08/942,214 Resources to Memory for Program Access" "Hot Add of Devices Software Architecture" 08/942,309 "Method for The Hot Add of Devices" 08/942,306 "Hot Swap of Devices Software Architecture" 08/942,311 "Method for The Hot Swap of Devices" 08/942,457 "Method for the Hot Add of a Network 08/943,072 Adapter on a System Including a Dynamically Loaded Adapter Driver" "Method for the Hot Add of a Mass 08/942,069 Storage Adapter on a System Including a Statically Loaded Adapter Driver" "Method for the Hot Add of a Network 08/942,465 Adapter on a System Including a Statically Loaded Adapter Driver" "Method for the Hot Add of a Mass 08/962,963 Storage Adapter on a System Including a Dynamically Loaded Adapter Driver" "Method for the Hot Swap of a Network 08/943,078 Adapter on a System Including a Dynamically Loaded Adapter Driver" "Method for the Hot Swap of a Mass 08/942,336 Storage Adapter on a System Including a Statically Loaded Adapter Driver" "Method for the Hot Swap of a Network 08/942,459 Adapter on a System Including a Statically Loaded Adapter Driver" "Method for the Hot Swap of a Mass 08/942,458 Storage Adapter on a System Including a Dynamically Loaded Adapter Driver" "Method of Performing an Extensive 08/942,463 Diagnostic Test in Conjunction with a BIOS Test Routine" "Apparatus for Performing an Extensive 08/942,163 Diagnostic Test in Conjunction with a BIOS Test Routine" "Configuration Management Method for 08/941,268 Hot Adding and Hot Replacing Devices" "Configuration Management System for 08/942,408 Hot Adding and Hot Replacing Devices" "Apparatus for Interfacing Buses" 08/942,382 "Method for Interfacing Buses" 08/942,413 "Computer Fan Speed Control Device" 08/942,447 "Computer Fan Speed Control Method" 08/942,216 "System for Powering Up and Powering 08/943,076 Down a Server" "Method of Powering Up and Powering 08/943,077 Down a Server" "System for Resetting a Server" 08/942,333 "Method of Resetting a Server" 08/942,405 "System for Displaying Flight Recorder" 08/942,070 "Method of Displaying Flight Recorder" 08/942,068 "Synchronous Communication Interface" 08/943,355 "Synchronous Communication Emulation" 08/942,004 "Software System Facilitating the 08/942,317 Replacement or Insertion of Devices in a Computer System" "Method for Facilitating the Replacement 08/942,316 or Insertion of Devices in a Computer System" "System Management Graphical User 08/943,357 Interface" "Display of System Information" 08/942,195 "Data Management System Supporting Hot 08/942,129 Plug

Operations on a Computer" "Data Management Method Supporting 08/942,124 Hot Plug Operations on a Computer" "Alert Configurator and Manager" 08/942,005 "Managing Computer System Alerts" 08/943,356 "Computer Fan Speed Control System" 08/940,301 "Computer Fan Speed Control System 08/941,267 Method" "Black Box Recorder for Information 08/942,381 System Events" "Method of Recording Information System 08/942,164 Events" "Method for Automatically Reporting a 08/942,168 System Failure in a Server" "System for Automatically Reporting a 08/942,384 System Failure in a Server" "Expansion of PCI Bus Loading Capacity" 08/942,404 "Method for Expanding PCI Bus Loading 08/942,223 Capacity" "System for Displaying System Status" 08/942,347 "Method of Displaying System Status" 08/942,071 "Fault Tolerant Computer System" 08/942,194 "Method for Hot Swapping of Network 08/943,044 Components" "A Method for Communicating a Software 08/942,221 Generated Pulse Waveform Between Two Servers in a Network" "A System for Communicating a Software 08/942,409 Generated Pulse Waveform Between Two Servers in a Network" "Method for Clustering Software Applications" 08/942,318 "System for Clustering Software Applications" 08/942,411 "Method for Automatically Configuring a 08/942,319 Server after Hot Add of a Device" "System for Automatically Configuring a 08/942,331 Server after Hot Add of a Device" "Method of Automatically Configuring and 08/942,412 Formatting a Computer System and Installing Software" "System for Automatically Configuring 08/941,955 and Formatting a Computer System and Installing Software" "Determining Slot Numbers in a Computer" 08/942,462 "System for Detecting Errors in a Network" 08/942,169 "Method of Detecting Errors in a Network" 08/940,302 "System for Detecting Network Errors" 08/942,407 "Method of Detecting Network Errors" 08/942,573

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L2: Entry 7 of 10 File: USPT Dec 12, 2000

DOCUMENT-IDENTIFIER: US 6161097 A
TITLE: Automated traffic management system and method

Detailed Description Text (4):
The executive subsystem 102 is responsible for controlling the other subsystems, starting and shutting down processes at scheduled times, monitoring system components for error and warning conditions, notifying system support personnel of detected system errors, and, when possible, recovering from system failures. Additional duties of the executive subsystem 102 include facilitating subsystem debugging, providing remote access to the TMS monitoring and control, maintaining system statistics, and managing user accounts. Other programs included in the executive subsystem 102 enable it to issue commands to reset various hardware components of the TMS 100. The executive subsystem 102 and its operation are illustrated in FIGS. 2 and 3.

Detailed Description Text (25):
The primary responsibilities of the executive subsystem 102 are to control the various TMS subsystems 102, 104, 106, 108, 110; to start and shut down the TMS processes at scheduled times; to monitor system components for error and warning conditions; to notify the TMS system support personnel of detected system errors; and, when possible, to recover from system failures. Additional duties of the executive subsystem 102 include facilitating subsystem debugging, providing remote access to the TMS monitoring and control, maintaining system statistics, and managing user accounts.

CLAIMS:

1. A data management system comprising:

a server;

a plurality of input sources connected to said server via at least one communication link, for allowing users to input data into said server, said server processing said input data;

a plurality of destination sources connected to said server via said at least one communication link, for allowing users to selectively access said processed data;

said server including:

(a) an autonomous, expert executive subsystem responsible for the tasks comprising: controlling other subsystems, starting and shutting down processes at scheduled times, monitoring system components for error and warning conditions, notifying system support personnel of detected system errors, and recovering from system failures;

(b) an information subsystem, capable of data fusion, responsible for the tasks comprising: integrating other subsystems, communicating traffic raw input data to a prediction subsystem, providing inter-process management and control, processing input and output data to and from said integrated subsystems, processing data fed

back from said prediction subsystem, and providing system housekeeping;

(c) an input data management subsystem for providing input data to said information subsystem;

(d) said prediction subsystem for integrating said traffic raw input data from said information subsystem, real-time monitoring of the actual airport or other facility performance, predicting the occurrence of selected events based on said traffic raw input data and actual said airport or other facility performance, and iteratively feeding said prediction data back to said information subsystem; and

(e) a client interface subsystem for providing user interface interactions to the system.

14. A method for operating a data management system, comprising the steps of:

(a) connecting a plurality of input sources to a server via at least one communication link, for allowing users to input data into said server, said server processing said input data;

(b) connecting a plurality of destination sources to said server via said at least one communication link, for allowing users to selectively access said processed input data;

(c) initiating an autonomous, expert executive subsystem responsible for performing the tasks comprising: controlling other subsystems, starting and shutting down processes at scheduled times, monitoring system components for error and warning conditions, notifying system support personnel of detected system errors, and recovering from system failures;

(d) activating an information subsystem, capable of data fusion, responsible for performing the tasks comprising: integrating other subsystems, communicating traffic raw input data to a prediction subsystem, providing inter-process management and control, processing input and output data to and from said integrated subsystems, processing data fed back from said prediction subsystem, and providing system housekeeping;

(e) activating an input data management subsystem for providing input data to said information subsystem;

(f) initializing said prediction subsystem for integrating said traffic raw input data from said information subsystem, for real-time monitoring of the actual airport or other facility performance, or predicting the occurrence of selected events based on said traffic raw input data and actual said airport or other facility performance, and iteratively feeding said prediction data back to said information subsystem; and

(g) initializing a client interface subsystem for providing user interactions to the system.

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☐ 1. Document ID: US 20030046975 A1

Using default format because multiple data bases are involved.

L21: Entry 1 of 24 File: PGPB Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030046975
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030046975 A1

TITLE: Gas monitoring system and environmentally controlled housing therefore

PUBLICATION-DATE: March 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wewers, Frank J.	Lenexa	KS	US	
EuDaly, Brian K.	Louisburg	KS	US	

US-CL-CURRENT: 73/23.21; 454/184, 73/431

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 2. Document ID: US 20030023407 A1

L21: Entry 2 of 24 File: PGPB Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030023407
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030023407 A1

TITLE: Method and device for monitoring the functioning of a system

PUBLICATION-DATE: January 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Loehr, Diethard	Holzmaden		DE	
Strommer, Axel	Brackenheim		DE	

US-CL-CURRENT: 702/186

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 3. Document ID: US 20030023405 A1

L21: Entry 3 of 24 File: PGPB Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030023405
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030023405 A1

TITLE: Method and device for monitoring the functioning of a system

PUBLICATION-DATE: January 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Loehr, Diethard	Holzmaden		DE	
Strommer, Axel	Brackenheim		DE	

US-CL-CURRENT: 702/182

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 4. Document ID: US 6901350 B2

L21: Entry 4 of 24 File: USPT May 31, 2005

US-PAT-NO: 6901350
DOCUMENT-IDENTIFIER: US 6901350 B2

TITLE: Method and device for monitoring the functioning of a system

DATE-ISSUED: May 31, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Loehr; Diethard	Holzmaden			DE
Strommer; Axel	Brackenheim			DE

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Robert Bosch GmbH	Stuttgart			DE	03

APPL-NO: 10/ 183890 [PALM]
DATE FILED: June 27, 2002

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE

DE	101 31 298	June 27, 2001
DE	102 20 811	May 10, 2002

INT-CL: [07] G06F01130

US-CL-ISSUED: 702/186; 702/188, 702/183, 714/47
US-CL-CURRENT: 702/186; 702/183, 702/188, 714/47

FIELD-OF-SEARCH: 706/47, 706/49, 702/186, 702/122, 702/123, 702/182-185, 702/187, 702/188, 702/116, 702/FOR 103, 702/FOR 104, 702/FOR 123, 702/FOR 129, 702/FOR 134, 702/FOR 135, 702/FOR 155, 702/FOR 170, 702/FOR 171, 714/25, 714/47, 303/122, 303/122.01-122.04, 303/122.05, 303/122.08, 303/176, 303/20, 303/22.1, 303/22.4, 303/25, 701/1, 701/29, 701/33, 701/36, 701/39, 701/43, 701/48, 701/62, 701/70, 701/71, 701/76, 701/92, 701/97, 340/3.1, 340/3.43, 340/286.01, 700/1-3, 700/9, 700/19, 700/20, 700/21, 700/79, 700/275, 700/277

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
5436837	July 1995	Gerstung et al.	701/29
5448722	September 1995	Lynne et al.	706/49
5500944	March 1996	Yoshida	714/47
5619621	April 1997	Puckett	706/47
5880568	March 1999	Bederna et al.	318/563
6154688	November 2000	Dominke et al.	701/1
6299261	October 2001	Weiberle et al.	303/20
6628993	September 2003	Bauer	700/20

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
41 14 999	November 1992	DE	
44 38 714	May 1996	DE	
195 00 188	July 1996	DE	
197 49 002	August 1998	DE	
198 26 131	December 1999	DE	
0 482 523	April 1992	EP	

ART-UNIT: 2857

PRIMARY-EXAMINER: Wachsman; Hal

ATTY-AGENT-FIRM: Kenyon & Kenyon

ABSTRACT:

A method and a device for monitoring the functioning of a system by checking input signals, output signals and at least one function unit of the system. The system

includes at least one lower-level subsystem and/or is a component of a higher-level system. The system includes components implemented in the form of hardware, including sensors, actuators and/or function computers. An intended function of the system is subdivided hierarchically as a function of the complexity of the function into at least one subsystem function which is in turn subdivided into at least one function unit, and the method is structured hierarchically into multiple monitoring layers.

11 Claims, 8 Drawing figures

☐ 5. Document ID: US 6856940 B2

L21: Entry 5 of 24 File: USPT Feb 15, 2005

US-PAT-NO: 6856940
DOCUMENT-IDENTIFIER: US 6856940 B2

TITLE: Method and device for monitoring the functioning of a system

DATE-ISSUED: February 15, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Loehr; Diethard	Holzmaden			DE
Strommer; Axel	Brackenheim			DE

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Robert Bosch GmbH	Stuttgart			DE	03

APPL-NO: 10/ 183828 [PALM]
DATE FILED: June 27, 2002

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	101 30 655	June 27, 2001
DE	102 20 812	May 10, 2002

INT-CL: [07] G06F01130

US-CL-ISSUED: 702/182
US-CL-CURRENT: 702/182

FIELD-OF-SEARCH: 702/182, 702/140, 702/50, 702/25, 702/188, 702/116, 340/3, 340/931, 340/107, 340/523, 382/107, 714/56, 315/326, 72/19, 131/58, 472/31, 187/406, 187/403, 318/568, 318/587, 318/4, 318/5, 700/96, 118/908, 322/15

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
3866109	February 1975	Reed et al.	322/15
5448722	September 1995	Lynne	
5500944	March 1996	Yoshida	
5619621	April 1997	Puckett	
5715178	February 1998	Scarola et al.	702/116
6122565	September 2000	Wenning et al.	700/206
6256544	July 2001	Weissinger	700/1

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
41 14 999	November 1992	DE	
44 38 714	May 1996	DE	
195 00 188	July 1996	DE	
197 49 002	August 1998	DE	
198 26 131	December 1999	DE	
0 482 523	April 1992	EP	

OTHER PUBLICATIONS

French Search Report (for corresponding French case) dated Feb. 10, 2004 (English Translation provided).

ART-UNIT: 2863

PRIMARY-EXAMINER: Barlow; John

ASSISTANT-EXAMINER: Lau; Tung S

ATTY-AGENT-FIRM: Kenyon & Kenyon

ABSTRACT:

A method of monitoring the functioning of a system by checking input signals, output signals, and functions of the system is provided. The system may have lower-level subsystems or may be a component of a higher-level system. The system has hardware components, including sensors, actuators, and/or function computers. A flexible structure, applicable to various systems to be monitored, is provided for the monitoring method. This monitoring method is structured into multiple decentralized monitoring functions provided in the individual functions of the system for monitoring the functioning of the individual functions, and structured into at least one higher-level, functions-overreaching monitoring instance for coordinating the monitoring functions.

21 Claims, 5 Drawing figures

☐ 6. Document ID: US 6647783 B2

L21: Entry 6 of 24 File: USPT Nov 18, 2003

US-PAT-NO: 6647783
DOCUMENT-IDENTIFIER: US 6647783 B2

TITLE: Vent plug for environmentally controlled housing for gas monitoring system

DATE-ISSUED: November 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wewers; Frank J.	Lenexa	KS		
EuDaly; Brian K.	Louisburg	KS		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Manning Systems, Inc.	Lenexa	KS			02

APPL-NO: 09/ 948384 [PALM]
DATE FILED: September 8, 2001

INT-CL: [07] G01 P 11/10, G01 N 27/00

US-CL-ISSUED: 73/431; 422/98
US-CL-CURRENT: 73/431; 422/98

FIELD-OF-SEARCH: 73/23.2, 73/23.21, 73/431, 236/DIG.19, 361/690, 454/1.84, 422/98, 422/83

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
3864628	February 1975	Klass et al.	
3999122	December 1976	Winstel et al.	
4040990	August 1977	Neely	
4171341	October 1979	Morgan	
4256985	March 1981	Goodson et al.	
4350660	September 1982	Robinson et al.	
4407778	October 1983	Shiratori et al.	
4481499	November 1984	Arima et al.	
4644333	February 1987	Barendsz et al.	
4745796	May 1988	Abdelrahman et al.	
4839331	June 1989	Maroldo et al.	
4911892	March 1990	Grace et al.	
5057436	October 1991	Ball	
D397629	September 1998	Wewers	D10/96

5879631 March 1999 Wewers et al.

OTHER PUBLICATIONS

Sales Brochure of Manning Systems, Inc., for Single Gas Elecrochemical Sensor/Transmitter, Model EC, believed to have been published more than one year prior the filling of the present application.
Sales Brochure of Manning Systems, Inc., for Ammonia Selective Electrochemical Gas Sensor/Transmitter, Model EC-NH.sub.3 believed to have been published more than one year prior the filing of the present application.
A sheet of drawings including three figures showing a vent plug of the type shown in the Sales Brochure of Manning Systems, Inc., for Ammonia Selective Electrochemical Gas Sensor/Transmitter, Model EC-NH.sub.3, believed to have been published more than one year prior the filing of the present application. The vent plug shown therein was on sale more than one year prior to the filing of the present application.
The vent plugs include a gas permeable membrane extending across an inner end of the plug. The prior art vent plug is adapted to be mounted in a vent plug opening in a housing for a gas sensor. The vent plug has an outer portion adapted to be mounted against the housing. Vent holes are formed in the outer portion, which also includes a cylindrical rim or wall extending through the vent plug opening into the housing. A gas permeable, paper membrane extends across an inner end of the cylindrical wall. Gripping fingers are formed in the cylindrical wall of the plug and are adapted to engage the housing around the vent hole to hold the plug in place. Slots or open space extend around the gripping fingers to permit the gripping fingers to flex relative to the cylindrical wall.

ART-UNIT: 2856

PRIMARY-EXAMINER: Williams; Hezron

ASSISTANT-EXAMINER: P; J Z

ATTY-AGENT-FIRM: Shughart Thomson & Kilroy P.C.

ABSTRACT:

A monitoring system, such as used to monitor the presence and/or concentration of gases or other such fluids, includes a housing through which fluid is permitted to pass and which includes a heater element. The housing includes one or more vent hole/vent plug combinations and fluid, including gas and/or liquid, passes through the vent hole/vent plug combinations to flow into, through and/or out of the housing. A heater element is located in the housing and maintains the housing interior above the dew point to facilitate proper operation of the sensor element. The heater element, in conjunction with the vent hole/vent plug combinations, facilitates a heated-air plume through the housing to avoid the build up of moisture therein and to expose the sensor element to a steady stream of ambient atmosphere for monitoring the gas concentrations in same.

15 Claims, 14 Drawing figures

7. Document ID: US 6446023 B1

L21: Entry 7 of 24 File: USPT Sep 3, 2002

US-PAT-NO: 6446023
DOCUMENT-IDENTIFIER: US 6446023 B1
**** See image for Certificate of Correction ****

TITLE: Method for monitoring the air pressure of the tires of a motor vehicle

DATE-ISSUED: September 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ernst; Gerhard	Hannover			DE

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Continental Aktiengesellschaft	Hannover			DE	03

APPL-NO: 09/ 550492 [PALM]
DATE FILED: April 17, 2000

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	199 17 034	April 15, 1999

INT-CL: [07] G01 L 11/00

US-CL-ISSUED: 702/138; 73/146.5, 116/34R, 340/442, 340/444
US-CL-CURRENT: 702/138; 116/34R, 340/442, 340/444, 73/146.5

FIELD-OF-SEARCH: 702/138, 340/444, 340/442, 116/34R, 73/146.5

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
5614882	March 1997	Latarnik et al.	116/34R

ART-UNIT: 2863

PRIMARY-EXAMINER: Hilten; John S.

ASSISTANT-EXAMINER: Cherry; Stephen J.

ATTY-AGENT-FIRM: Ottessen; Walter

ABSTRACT:

The invention relates to a method for monitoring the air pressure of a tire of a motor vehicle with a tire pressure control system. The invention further relates to a motor vehicle having a tire pressure control system with which the method can be carried out. The tire pressure control system includes tire pressure control devices (4a to 4d) on each of the wheels (2a to 2d), which transmit to a central

unit, at regular intervals, a data transmission which contains, inter alia, the air pressure measured in the tires. The central unit generates a warning signal when the determined air pressure deviates by more than a pregiven amount from the stored air pressure. The motor vehicle contains a second tire pressure control system which operates independently of the first tire pressure control system and monitors the air pressure in the tires of the motor vehicle at least when a transmission pause, which is too long, occurs between two data transmissions of one of the tire pressure control devices (4a to 4d).

6 Claims, 2 Drawing figures

8. Document ID: US 6015193 A

L21: Entry 8 of 24 File: USPT Jan 18, 2000

US-PAT-NO: 6015193
DOCUMENT-IDENTIFIER: US 6015193 A

TITLE: Braking and steering system for a vehicle

DATE-ISSUED: January 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vogel; Thomas	Leonberg			DE
Thurner; Thomas	Kirchheim/Teck			DE

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
DaimlerChrysler AG				DE	03

APPL-NO: 08/ 683250 [PALM]
DATE FILED: July 18, 1996

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	195 26 250	July 18, 1995

INT-CL: [06] B62 D 6/00

US-CL-ISSUED: 303/147; 303/9.75, 303/22.1, 303/140
US-CL-CURRENT: 303/147; 303/140, 303/22.1, 303/9.75

FIELD-OF-SEARCH: 303/146-149, 303/22.1, 303/9.75, 303/140, 180/6.28, 180/405, 180/407

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
3603424	September 1971	Blood et al.	
3877537	April 1975	Ohms et al.	
3888328	June 1975	Leiber	303/147
4039041	August 1977	Farrow	303/9.75
4140201	February 1979	Young	303/22.1
5351776	October 1994	Keller et al.	

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
314 641A2	1989	EP	
714334	November 1941	DE	
2120745	April 1971	DE	
2 120 745	November 1972	DE	
40 41 404	July 1991	DE	
40 22 671	January 1992	DE	
4123234 C1	August 1992	DE	
42 27 157 A1	March 1993	DE	
4232256 A1	April 1993	DE	
41 34 240 A1	April 1993	DE	
42 07 719 A1	September 1993	DE	
43 34 260	April 1994	DE	
4302670 A1	August 1994	DE	
43 39 570	May 1995	DE	
4438929 C1	October 1995	DE	
61-215167	1986	JP	
193 247	1990	JP	
2-85059	1990	JP	
298 105	1994	JP	
56 015	1994	JP	
1 290 259	April 1970	GB	
2 205 009	May 1987	GB	

OTHER PUBLICATIONS

Article in 1993 "Frankfurt/Main" magazine Nr. 9, pp. 697-701.

ART-UNIT: 363

PRIMARY-EXAMINER: Graham; Matthew C.

ATTY-AGENT-FIRM: Evenson, McKeown, Edwards & Lenahan, P.L.L.C.

ABSTRACT:

The invention relates to a braking and steering system for a vehicle which provides at least fail-safe braking and steering. In a fault-tolerant, preferably redundant, computing unit, a desired braking effect is determined at least for each wheel of

the vehicle, and a desired steering effect is determined for each wheel with a steering function, in each case in response to sensor signals. The braking function and the steering function for the wheels are regulated or controlled by means of adjusting systems on the basis of the determined desired braking effect and desired steering effect. The adjusting system for the braking function contains a service brake and that for the steering function additionally contains a steering adjuster. A fault-tolerant communication device connects the adjusting systems to the computing unit. The energy supply of the computing unit and of the adjusting systems is designed with fault tolerance.

27 Claims, 7 Drawing figures

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TITLE: Heart pacemaker

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PARENT-CASE:
CROSS REFERENCE TO RELATED APPLICATIONS This application is a continuation of U.S. application Ser. No. 07/026,676, filed Mar. 17th, 1987, now abandoned, which is a continuing application of abandoned U.S. application Ser. No. 06/908,367, filed Sept. 17th, 1986.

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